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 Title: **JP4206366A2: FLAT BATTERY**

 Country: **JP Japan**

 Kind: **A**

 Inventor: **NAKAI KENJI;  
HIGASHIMOTO KOJI;  
HIRONAKA KENSUKE;  
HAYAKAWA TAKUMI;  
KOMAKI AKIO;  
NAKANAGA TAKEFUMI;  
TANIGUCHI MASATOSHI;**

 Assignee: **SHIN KOBE ELECTRIC MACH CO LTD.  
OTSUKA CHEM CO LTD**  
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 Published / Filed: **1992-07-28 / 1990-11-30**

 Application **JP1990000333743**

Number:

 IPC Code: **H01M 10/40; H01M 4/02;**

 Priority Number: **1990-11-30 JP1990000333743**

 Abstract:

... PURPOSE: To prevent the aggravation of the battery performance by laminating a flat positive electrode active material and a negative electrode active material through a solid electrolyte, covering these generating elements with a collector, divisionally forming the positive electrode active material on the collector, and sealing the peripheral part by a sealing material.

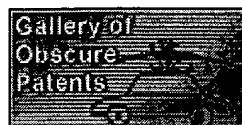
... CONSTITUTION: On a stainless foil used as both a battery sheath and a collector 1, an aqueous solution of vanadium pentoxide which is a positive electrode material 2 is finely applied by means of screen printing, dried and heated. For example, a 1,2-dimethoxyethane(DME) solution of a polyphosphadine derivative in which 1mol/l of lithium perchlorate is dissolved is applied thereon by means of screen printing, and the DME is evaporated to form a solid electrolyte 3. A metal lithium foil is stuck thereon as a negative electrode active material 4, and further covered with the stainless foil of a collector 1', and the peripheral part is thermally fused by a sealing material 5 such as a modified polyethylene resin and sealed. Thus, the aggravation of the battery performance can be prevented.

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 Family: **None**

 Other Abstract **None**

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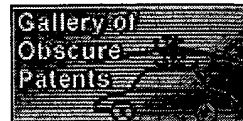
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(19)

(11) Publication number: **04**

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**PATENT ABSTRACTS OF JAPAN**(21) Application number: **02333743**(51) Intl. Cl.: **H01M 10/40 H01M 4/02**(22) Application date: **30.11.90**

(30) Priority:

(43) Date of application  
publication: **28.07.92**(84) Designated contracting  
states:(71) Applicant: **SHIN KOBE ELECTRIC  
LTD.  
OTSUKA CHEM CO LT**(72) Inventor: **NAKAI KENJI  
HIGASHIMOTO KOJI  
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HAYAKAWA TAKUMI  
KOMAKI AKIO  
NAKANAGA TAKEFUM  
TANIGUCHI MASATOSH**

(74) Representative:

**(54) FLAT BATTERY**

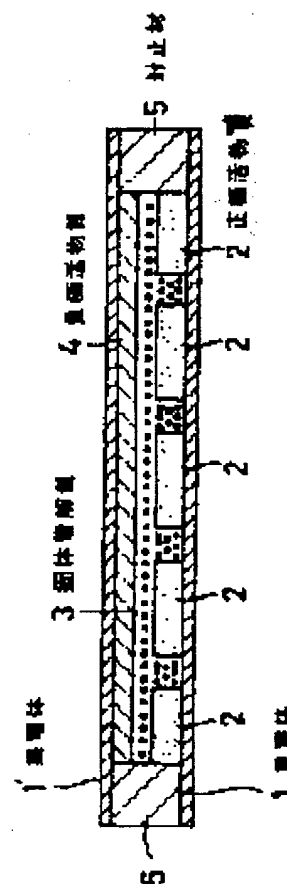
(57) Abstract:

**PURPOSE:** To prevent the aggravation of the battery performance by laminating a flat positive electrode active material and a negative electrode active material through a solid electrolyte, covering these generating elements with a collector, divisionally forming the positive electrode active material on the collector, and sealing the peripheral part by a sealing material.

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